DETAILS OF ACTION PLAN OF KVKs DURING 2016-17

(1st April 2016 to 31st March 2017)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail	Website
Krishi Vigyan Kendra, **AMBHETI** Ta. Kaparada Di. Valsad Via. Vapi **Gujarat Pin. 396 191**	Office (1) 02633 260055	FAX 02633 260055	**kvkvalsad@gmail.com**	www.kvkvalsad.org

1.2 .a. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Website
	Office	**FAX**		
Gujarat Vidyapith Ashram road AHMEDABAD **Pin. 380 014**	(1) 079 2754 5044 (2) 079 2754 1148	079 2754 25 47	registrar @ gujaratvidyapith.org	www.gujaratvidyapith.org

1.2.b. Status of KVK website : www.kvkvalsad.org

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : not available

1.2.d Status of ICT lab at your KVK : Nil

1.3. Name of the Programme Coordinator with phone & mobile no.

Name	Telephone / Contact		
	Residence	Mobile	E .mail
Dr. R.F.Thakor	--	94271 29451	rthakor1965@yahoo.co.in

1.4 Year of sanction : Sanction letter F. No. 5 (108) / 90 - KVK 28th March 1991
Year of Establishment : 21th Sept. 1992

1.5. Staff position (as on 30 Sept. 2015)

Sr. No	Sanction post	Name of the incumbent	Designation	Discipline	Pay scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent / Temporary	Category	Mobile No.	Email id	Please attach recent photograph
1	Sr. Sci. & Head	Dr. R.F.Thakor	Sr. Sci.& Head	Ext . Edu.	37400-67000	55550	19/05/01	Permanent	Other	94271 29451	rthakor1965 @yahoo.co.in	
2	SMS	Sh. K.A.Patel	SMS	Pl. Prot.	15600-39100	31770	28/02/94	Permanent	Other	94268 89148	kamlesh.patel 40@gmail.com	
3	SMS	Sh. A.R.Patel	SMS	Ext . Edu.	15600-39100	31770	23/01/96	Permanent	Other	94283 81449	arvindkvkvalsad@gmail.com	
4	SMS	Sh. L. T. Kapur	SMS	Soil Science	15600-39100	23000	16/12/06	Permanent	SC	89806 19497	ltkvkambheti @gmail.com	
5	SMS	Sh. M.M.Gajjar	SMS	Agronomy	15600-39100	16880	17/09/13	Permanent	Other	75748 50527	gajjarmit4772@yahoo.com	
6	SMS	--	--	Horti.	15600-39100	--	--	--	--	--	---	
7	Programme Assistant	Smt. P.R.Ahir	Programme Assistant	Home Sci.	9300-34800	18540	01/05/01	Permanent	OBC	94294 50875	---	
8	Programme Assistant	Sh. B.M.Patel	Programme Assistant	Ani .Sci.	9300-34800	17290	02/12/02	Permanent	Other	94271 41759	kvkbalu@ rediffmail.com	

9	Programme Assistant	Sh. P.J.Joshi	Programme Assistant	Agri. Engg.	9300-34800	18380	23/12/02	Permanent	Other	90999 66899	Prjoshi1p@rediffmail.com	
10	Farm manager	Sh. P.R.Patel	Farm manager	Farm manager	9300-34800	17780	01/05/01	Permanent	OBC	96876 36758	paresh1567@gmail.com	
11	Office Super.	Sh. C.D.Patel	O.S	O.S	9300-34800	10130	27/09/13	Permanent	Other	75748 50529	cp.kvk8272@gmail.com	
12	Jr. steno cum Acco.	Sh. V.B.Patel	Jr. st. cum Acc.	Accountant	5200-20200	12880	01/11/99	Permanent	ST	96876 36748	vinodkvkambheti@gmail.com	
13	Driver	Sh. R. D.Rohit	Driver	Driver	5200-20200	8780	16/06/08	Permanent	SC	97269 25033	rdrohit1976@gmail.com	
14	Driver	Sh. H.G.Valand	Driver	Driver	5200-20200	8450	01/08/09	Permanent	OBC	99257 66511	harikrushna1979@gmil.com	
15	Supporting Staff	Sh. A.R. Patel	Peon	Office attendant	5200-20200	8330	01/11/99	Permanent	ST	75758 04956	ashokpatelambheti@gmail.com	
16	Supporting Staff	Sh. B.M. Patel	Farm attendant	Farm attendant	5200-20200	5630	01/04/13	Permanent	OBC	96385 91252	bhavinpatel386510@gmail.com	

1.6. Total land with KVK (ha) : 20 ha

Sr . No.	Item	Area (Ha.)
1	Under building	2.0 ha.
2	Under demonstration unit	1.0 ha
3	Under crops	8.0 ha
4	Horticulture	6.0 ha
5	Pond	--
5	Others (Grass land)	3.0 ha.

1.7. Infrastructural Development:

A) Buildings

Sr. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR /GVP	1998	720 Sq.mt	2874422	--	--	--
2.	Farmers Hostel	ICAR		138 Sq.mt		--	--	--
3.	Staff Quarter	ICAR	1999	154 Sq.mt	1585055	--	--	--
4.	Demonstration Units -- Dairy Demo. Unit	ICAR , TSP ,Valsad	2006	100 Sq.mt	204312	--	--	--
5	Fencing	--		--		--	--	--
6	Bore well	ICAR	2012	300 ft	497095	--	--	--
7	Threshing floor	ICAR	2006	100 Sq.mt	123818	--	--	--
8	Farm godown	ICAR	2010	100 Sq.mt	373168	--	--	--
9	Implement shed	ICAR	2011	140 Sq.mt	300000	--	--	--
10	Soil-water testing lab.	ICAR	2007	--	612387	--	--	--
11	Plant Health Clinic	ICAR	2012	--	999953	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	1993	1,94,850	Approx. 47,000 hrs.	Replacement requires.
Tractor Trolley	1995	61,500	-	Replacement requires.
Jeep (Bolero)	2010	477058	141370	Working condition.
Power tiller	2010	1,55,500	--	Working condition.
Motor Cycle	2011	49995	6851	Working condition.

C) Equipments & AV aids

Name of the Equipment	Year of purchase	Cost (Rs.)	Present status
P A S system	1997	10230	Working condition.
Computer -2	2007 & 2010	1,02,270 +50,000	Working condition.
L C D	2007	75,400	Working condition.
Camera -2	1997 & 2007	2675 + 15250	Working condition.
Lap Top -2	2007 & 2012	51,750	Working condition.
P A S system	2009	28057	Working condition.
Handicam	2009	12990	Working condition.
Generator set	2009	37972	Working condition.
Laptop -Lenevo	2012	36368	Working condition.
LED -Sony	2015	52000	Working condition.

1.8. A). Details of SAC meetings to be conducted in the year

Sl.No.		Date
1.	Scientific Advisory Committee	Jan-2017

2. DETAILS OF DISTRICT

2.1 Major farming systems / enterprises (based on the analysis made by KVK)

Sr. No.	Farming systems / enterprises
1	Agri - Horti Farming systems
2	Agri – Silviculture farming systems
3	Agri - forestry farming systems

2.2 Description of Agro-Climatic zone and major agro ecological situations (based on the soil and topography)

a) Soil type

Sr. No.	Agro-Climatic zone	Characteristics
1	South Gujarat Heavy Rainfall Zone -I	Annual Average rainfall 2000-2200 mm
		Black to medium black soil.
		Sticky and Heavy soil.
		Stip slopes cause heavy runoff of rain water resulting into soil erosion.

b) Topography

Sr. No.	Agro-ecological situation	Characteristics
1	Agro-ecological situation – I & II	- Costal belt - Western part
		- Medium black to black soil
		- Hilly ,Shallow ,Undulating land – Eastern part

2.3 Soil types

Sr. No.	Soil type	Characteristics	Area in ha.
1	Shallow soil	- Poor fertility & water holding capacity.	--
2	Medium black to black soil	- Sticky and Heavy in nature .	--
3	Hilly ,Shallow ,Undulating land	- Non fertile and mostly non agril land	--
			2,94,412 ha.

2.4 Area , Production and Productivity of major crops cultivated in the district (2015-16)

Sr. No.	Crops	Area (,000 ha.)	Production (,000 tones.)	Productivity (Kgs / ha.)
1	**Food grains**			
	Paddy (irrigated)	19.786	65.293	3300
	Paddy (Unirrigated)	51.572	133.055	2580
	Total Paddy	**71.358**	**198.328**	**2750**
	Ragi (Finger millet)	5.331	5331	1000
	Jowar	0.708	0.722	1020
	Pigeon Pea	7.555	5.364	710
	Urid	5.749	3.737	650
	Mung	47	0.035	740
	Val	7.767	6.524	840
	Gram	1.777	1.422	800
	Groundnut	0.283	0.427	1510
	Niger	5.763	2.536	440
	Sugarcane	19.781	1285.76	65000
	Total Field crops	**127.121**	**1509.87**	
2	**Fruit crops**			
	Mango	26.250	157.50	6000
	Chiku	3.345	32.513	9720
	Banana	0.770	43.274	56200
	Papaya	0.145	6.254	43130
	Cashewnut	5.590	18.11	3240
	Coconut	2.930	29.30	10000
	Total	**39030**	**286.94**	
3	**Vegetables**			

	Brinjal	1.625	26.00	16000
	Okra	1.620	16.20	10000
	Tomato	1.405	29.50	21000
	Cucurbits	2.831	62.28	22000
	Total	**7.475**	**133.98**	17000
4	**Spices & condiments**			
	Chilly	0.1	1.14	11400

Source: District agriculture department.

2.5. Weather data (2015-16)

Month	**Rainfall (mm)**	**Rainy days**	**Temperature C**		**Relative Humidity (%)**	
			Maximum	**Minimum**	**Maximum**	**Minimum**
April	0	0	35.63	21.33	79.87	48.70
May	0	0	36.46	25.32	74.47	54.00
June	287.3	12	32.71	25.18	84.49	74.18
July	639.7	11	31.19	25.78	88.11	77.90
August	258.9	10	31.00	24.45	93.17	76.33
September	410.5	8	32.04	22.40	89.66	70.60
October	51.8	3	35.47	20.82	80.24	54.67
November	0	0	34.83	15.90	73.00	40.96
December	0	0	32.38	10.63	76.34	53.51
January	0	0	31.69	9.35	78.10	33.73
February	1.0	1	32.28	12.71	84.62	45.95
March	0	0	34.89	14.30	73.00	45.76

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle	247601	69.93	--
Crossbred	38869	26.31	6.137
Indigenous	208732	43.62	1.884
Buffalo	96487	35.45	3.014
Sheep	3433	--	--
Goats	105094	--	--
Pigs	1825	--	--
Poultry	773599	--	--
Ducks	1262	--	--

Source : CDAP-Valsad

2.7 Details of Operational area / Villages

Sr. No.	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Area
1	Kaparada	Nandgam, Chandvegan, Vardha Ozarada, Balchondi, Khutali, Amdha, Arnai, Dhodhadkuva, Varoli, Kolvera,.	Paddy , Fingermillet, Sugarcane, Pulses, Vegetables , Micro irrigation & Dairy.	Low productivity in all crops. Water scarcity Poor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.
2	Dharampur	Kakadkuva, Nani vahiyal, Bhanvad, Bindval, Pangarbari, Hanmatmal	Paddy , Vegetables & Dairy .	Low productivity in all crops. Poor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.

3	Pardi	Goima, Tarmalia, Velparva, Khuntej, Asma, Ambach, Lakhmapore, Rohina	Paddy ,Sugarcane, Pulses, Vegetables , Mango & Dairy.	Low productivity in all crops. Poor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.
4	Umargam	Saronda, Aklara, Borigam	Paddy & Vegetable.	Low productivity in all crops.	ICM ,INM, IPM, IWM
5	Valsad	Ozar	Paddy & Vegetable.	Low productivity in all crops.	ICM ,INM, IPM, IWM

2.8 Priority thrust areas

Crop/Enterprise	Thrust area
Paddy	Varietal evaluation ,ICM, IWM, INM, IPM
Fingermillet	Varietal evaluation ,ICM, IWM, INM, IPM
Sweetpotato	Varietal evaluation ,ICM, IWM, INM, IPM
Greengram, Gram, Indianbean	Varietal evaluation ,ICM, IWM, INM, IPM
Cucurbits	Integrated Pest & Disease Management, INM.
Sugarcane	Varietal evaluation ,ICM, IWM, INM, IPM
Brinjal, Chilli, Tomato	Varietal evaluation ,ICM, IWM, INM, IPM
Livestock	Feed & fodder mgt., Integrated livestock mgt.
Income generation	Vocational training

3. TECHNICAL PROGRAMME

3. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
11	**75**	**234**	**1145**

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
73	1815	Field Day	10
		Kisan Mela	01
		Kisan Ghosthi	20
		Exhibition	03
		Film Show	15
		Farmers Seminar	10
		Lectures delivered as resource persons	20
		Group meetings	25

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
Paddy – 80.00	Sugarcane - 300.0 qt.	--	Soil Sample - 500
Greengram – 3.00	Veg. seedlings - 8,00,000 nos	--	Water Sample - 200
Indianbean - 1.00	Fodder Toussecks – 50,000 nos.	--	
	Sweetpotato - 65000 cuttings	--	

3. B. Abstract of interventions to be undertaken

Sr. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Crop Production	Paddy, Gram, Greengram, Indianbean, Sweetpotato	Low Yield	1. Assessment of seed rate of paddy nursery on yield of crop . 2. Assessment of paddy variety for kharif cultivation . 3. Assessment of Gram variety ForRainfed rabi cultivation . 4. Assessment of improved varieties Sweet potato.	Demo. of improved variety	ICM practices	Sci. cultivation. of Paddy, Gram, Greengram, Indianbean, Sweetpotato	Field day , Seminar, Kisan gosthi Diagnostic visits.	Seeds ,Bio.Ferti.

2	Integrated Nutrient management	Paddy, Fingermillet Brinjal Pigeonpea Chilly, Bottlegourd Bittergourd Sugarcane	Low yield	1. Assessment of Integrated Nutrient Management in Brinjal 2. Assessment of use of LBF enriched vermin compost in Fingermillet	Demo. on INM	INM practices	Package of practices for INM	Field day , Seminar, Kisan gosthi Diagnostic visits.	Azolla, LBF & micro nutrients
3	Integrated Pest & disease management	Paddy, Fingermillet Brinjal Pigeonpea Chilly, Bottlegourd Bittergourd Sugarcane	Low yield	1.Assessment of different pesticides for management of hoppers in mango 2.Varietal screening for management of mosaic disease in bitter gourd	Demo. of IPM techniques	IPM practices	Ecofriendly pest- disease mgt.	Kisan gosthi Diagnostic visits.	IPM kits
4	Feed & fodder mgt.	Fodder sorghum	Low yield	--	Demo. of improved Fodder variety	Scientific mgt. of milch animals	--	Seminar, Kisan gosthi Diagnostic visits.	Treated seeds

5	Fertility mgt.	Cow	Low milk Production	Management of Anoestrous	--	--	--	Kisan gosthi Diagnostic visits.	--
6	Integrated Water Management	Paddy, Fingermillet Brinjal Pigeonpea Chilly, Bittergourd Sugarcane	Low yield	--	--	IWM practices	Soil & water conservation practices	Field day , Kisan gosthi Diagnostic visits.	Plasic mulching
7	Nutritional management	Vegetables	Low yield	To assess different models of kitchen gardening.	Demo. of improved variety	ICM practices	--	Kisan gosthi Diagnostic visits.	Seeds & seedlings
8	Drudgery reduction	Repair and maintenance of farm machinery	No income	Drudgery reduction in paddy threshing	Demo. of thresher	--	--	Kisan gosthi Diagnostic visits.	--
9	Income generation activities	Tailoring and Stitching	No income	--	--	Vocational training	--	--	--
		Preparation of articles from Okra threads	No income	--	--		--	--	--

3.1 Technologies to be assessed and refined

A.1 Abstract on the number of technologies to be assessed in respect of **crops**

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	02		01						01	04
Integrated Nutrient Management	01				01					02
Integrated Pest Management						01				01
Integrated Disease Management					01					01
Nutritional management					01					01
Farm machineries	01									01
TOTAL	**04**		**01**		**03**	**01**			**01**	**10**

A.2. Abstract on the number of technologies to be refined in respect of crops : Nil

A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Vermi culture	Fisheries	TOTAL
Nutrition Management	01	--	--	--	--	--	--	01
TOTAL	**01**	**--**	**--**	**--**	**--**	**--**	**--**	**01**

A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises : NIL

B. Details of On Farm Trial

On Farm Testing : (1)

Title : Assessment of seed rate of paddy nursery on yield of crop.

Introduction :

Paddy is one of the major cereal crop of valsad district. The crop is mainly grown during "*kharif*" season. Paddy occupies about 70-80 % of total cropped area. But farmer using more seed rate almost double in nursery with less area for nursery and not preparing the raised bed for raising paddy nursary results crop compete for space, sunlight, nutrient, water etc. so the seedling is thin, not strong and sturdy and healthy and farmer using 4-5 seedlings per hills instead of 2-3 seedlings per hills. This OFT is therefore formulated to assess the ideal seed rate/m^2 for more yield.

Intervening point: Ideal seed rate/m^2 for more yield.

Village : Arnala **Taluka :** Pardi **Area :** 0.02 ha per treatment

No. of farmers: 5

Total Area : 0.3 ha (TP area, 3.00 ha) **Season :** K*harif*– 2016-17

Treatments:

T_1 : Farmers Practice (> 40gm/m^2 flat bed)
T_2 : Recommended (30 gm/m^2 - 10x1m raised bed 100 no./ha)
T_3 : Seed rate @ 30 gm/m^2 flatbed

Expenditure

	Item	Amount (Rs)
1)	Seeds	2000.00
2)	Nursery raising cost	8000.00
	Total (Rs)	**10,000.00**

On Farm Testing : (2)

Title of OFT : Assessment of Paddy variety for Kharif cultivation in Valsad district.

Introduction

Paddy is the major crop and staple food of district. 90% farmers in the district grown rainfed paddy crop and most of the farmer using hybrid variety. Though they are using hybrid variety and do not maintaining plant population, injudicious use of fertilizer, susceptible to lodging, Plant protection measures etc. while farmer are purchasing costly hybrid seed materials every season and they are dependent on seed company. Market price of hybrid paddy is less so the cost of production is more result low net realization. Besides farmer using improved variety which is high yield potential, resistant to disease and pest, lodging resistant, good market price and importantly farmer no need to purchase seed every season.

Problem : Low B:C ratio
Intervention : Comparison of improved varieties of paddy with Hybrid variety for kharif season.
Crop : paddy **Season :** K*harif*– 2016-17 **No. of farmers :** 10
Plot size : 0.10 ha for each treatment (Total area : 3.0 ha)

Treatments:

T1 : Farmer's practices (hybrid)
T2 : Recommended (GNR - 2)
T3: GAR-13

Appro. Cost :

1. Seed of Improved variety : 2500 Rs
2. IPM kit (250 Rs x 5) : 4000 Rs.

Total cost : 6500 Rs

On Farm Testing : (3)

Title of OFT : Assessment of Gram variety for Rainfed *Rabi* cultivation in Valsad district .

Introduction

Gram is almost raised under conserved moisture and crop is sown after paddy in *rabi* season. particularly the end of September to first forth night of October. The farmers are maintaining relatively higher plant population in early stage of growth which invites competition among the plants for moisture, nutrients, space, etc. Plant protection measures are rarely used. Varieties used by farmers are small seeded, poor in quality, having poor production potential and susceptible to pest and disease. However, farmers preferred bold seeded, brown coloured grain variety with good cooking quality & taste gave good market price and yielded higher.

Problem : Low yield of Rainfed *Rabi* gram.
Intervention : Comparison of improved varieties of gram for rainfed Rabi season.
Crop : Gram **Season :** Rabi -2016-17
No. of farmers : 10 **Plot size :** 0.05 ha for each treatment (Total area : 1.5 ha)
Treatments:

T1 : Growing local variety with local practices

T2 : Growing GG-2 with improved practices

T3 : Growing PKV – 2 with improved practices

Appro. Cost :

1. Seed of Improved variety : 3600 Rs
2. IPM kit (300 Rs x 10) : 3000 Rs.

- ----------

6600 Rs

On Farm Testing : (4)

Title of OFT: Assessment of Integrated Nutrient Management in Brinjal

Introduction : Brinjal cultivation is more prominent in the Dharampur block of Valsad district though high profitability as compared to other crops. Farmers waste lots of money for costly fertilizers and increasing cost so they getting low return though there is a ample scope of reduction in fertilizer cost and improvement in soil health through Integrated Nutrient management with the use of Liquid biofertilisers enriched FYM. Profitability can be increased with the reduction in cost of cultivation of this crop. The biological properties of soil can be improved with the integrated application of liquid biofertilisers and FYM.

Problem : Low return from Brinjal.

Intervening point : Application of integrated Nutrient Management

Crop : Brinjal **Year :** 2016-17 **Season:** Rabi

Village : Rohina **Plot size :** 1.50 ha.(0.10 ha per treatment)

No.of farmers : 05

Treatments :

T_1 : Farmer practice (i.e 172 : 70 : 85 kg NPK ha^{-1})

T_2 : 75% Recommended dose of fertilizer (75:28:28 kg N, P_2O_5, K_2O ha^{-1}) + 25% 0f RDF through Bio-compost (10 tones ha^{-1})

T_3 : 60% Recommended dose of fertilizer (60:30:30 kg N, P_2O_5, K_2O ha^{-1}) +12 t FYM ha^{-1} (20% 0f RDF) +1.25 lt. ha^{-1} LBF(20% 0f RDF) & Tricho. and Psuedo. culture

Approx. Cost of Inputs (per farmer):

1. Chemical Fertilisers	:	2000.00 Rs.
2. Biocompost & FYM:		2500.00 Rs.
3.Liquid biofertiliser & Culture	:	150.00 Rs
		4650.00 Rs

On Farm Testing : (5)

Title of OFT : Assessment of different pesticides for management of hoppers in mango

Introduction :

Valsad, predominantly a tribal district is famous for its quality horticultural produce like Mango, Sapota and vegetables such as Brinjal. Chilly, Bottle gourd, Bitter gourd and Tomato. Mango –the king of fruits crop is leading fruit crop of our country. Gujarat has been known for producing high quality Alphanso, Kesar variety of mango particularly Valsad district of south Gujarat is well known for its world famous variety-Alphanso.

It is observed that particularly in the Pardi block of Valsad district, mango growers are facing problem of attack of mango hoppers in mango. Mango hopper is a regular pest in this area. Attack of hoppers causes lot of damage to mango crop . Therefore, there is a higher economic loss from producer point of view as it lower down the yield and deteriorate fruit quality resulting into low market value. It was also observed that the farmers in this area are using different insecticides with no result. It is possible that the pest might have created some resistant power against certain pesticides. Therefore, it is necessary to check efficacy of different pesticides for proper management of mango hoppers.

Problem : Low yield in Mango
Intervening point : Management of hoppers in mango.
Season/Year : Rabi 2016-17
Crop : Mango **No. of Farmers** : 05
Village : Lakhmapor **Block :** Pardi
Plot size : 0.30 ha (0.10 ha per treatment)

Treatments :

T1 : First Spray of Synthetic Pyrethroids (Cypermethrin 25 EC @ 3ml/10 lit) at early stage of panicle formation and second spray of Imidachloprid 17.8 SL@ 3 ml/10 lit after fruit set (SAU recommendation)

T2 : First spray of Imidachloprid 17.8 SL@ 3 ml/10 lit at early stage of panicle formation and second spray of Thiomethoxam @ 2 g / 10 lit or Acephate @ 15 g/ 10 lit after fruit set . (Source : Central Institute for Subtropical Horticulture, Lukhnow)

T3 : Farmers practices (arbitrary use of pesticides i.e. Monocrotophos @ 10 ml/ 10 lit, Cypermethrin 25 EC @ 3ml/10 lit and Imidachloprid 17.8 SL@ 3 ml/10 lit)

Approx. Cost of Inputs :

1. Cypermethrin 25 EC : 1000 Rs
2. Imidachloprid 17.8 SL : 2000 Rs
3. Thiomethoxam/ Acephate : 2000 Rs
4. Monocrotophos : 1000 Rs

Total : 6000 Rs

On Farm Testing (6)

Title of OFT : Varietal screening for management of mosaic disease in Bitter gourd.

Introduction :

The area under vegetable crops in Kaparada block of Valsad district is increased during last decade owing to the high profitability as compared to other crops. Cucurbits, Brinjal, Chili, Tomato, etc. are the major vegetable crops in this area. Among these crops, bitter gourd is an important vegetable crop particularly in tribal hilly area of Kaparada block.

Farmers of this area are using hybrid variety of different companies. Mosaic – a viral disease is a serious threat to commercial production of bitter gourd in Kaparada block of Valsad district. Farmers waste lot of money for spraying pesticides with no result in control. Therefore, it is very necessary to think for proper management of this disease. So, this KVK has decided to screen different varieties for the management of mosaic disease in bitter gourd.

Problem : Low yield in Bitter gourd

Intervening point : Management of mosaic disease in bitter gourd through varietal screening.

Season/Year : Kharif- 2016

Crop : Bitter gourd

Village : Nandgam **Block :** Kaparada

Plot size : 0.15 ha (0.05 ha per treatment)

No. of Replication : 10 (farmers)

Treatments :

T1 : Coimbatore long Var. + Removal of infected plant and spraying of systemic insecticide for control of vector (SAU recommendation)

T2 : Mosaic Resistant variety (Vivek) + Removal of infected plant and spraying of systemic insecticide for control of vector

(Source : Sungrow Co.)

T3 : Farmers practices (Kohinoor Var.)

Approx. Cost of Inputs :

1. Variety 1 : 500 Rs
2. Variety 2 : 1000 Rs
3. Variety 3 : 1000 Rs
4. Insecticide (Imidachloprid) : 1500 Rs

Total : 4000 Rs

On Farm Testing : (7)

Title : **Management of Anoestrous(Age of first calving) in HF cross breed heifer.**

Introduction :

In ideal condition age of puberty (conceive heat) of HF cross breed heifer is 16 to 18 month and body weight gains about 250 kg to 270 kg and lactation start at the age of 30 months(Age of first calving) At first lactation period milk production of HF cross is 2000 to 2500 ltrs In Kaparada block of Valsad district in some of the HF cross breed heifer problem of prolong Age of Puberty - conceive heat and Age of first calving(4 years) due to Anoestrous leads to loss of milk production of one lactation.

Problem – Anestrous in HF cross breed heifer.

Intervening point : Feed management

Year :- 2016 – 17

Village : Pati **Taluka :** Paradi

No. Animals: 05

Treatments : T_1 :- Farmer practice (Improper feeding of concentrate, feed supplement, green fodder ,low grade paddy straw and Deworming .)

T_2 :- University Recommendation as below,

Age Month	Weight (kg)	Concentrate Per day	Green fodder (kg)	Dry fodder (kg)
0-1	25-45	50-100 gms	1	0.5
3-6	55-95	200-600 gms	3	1
7-9	110-140	600gms-1kgs	5	1.5
10-12	155-185	1.5-2 kgs	10	4
16-18	245-275	2-2.5 kgs	12	4

T_3 : SAU Recommendation feed and fodder management continue for 2 months with medicinal treatments after selection and registration of Anoestrous cross breed heifer (age above 18 month) which is the over age of puberty(conceive heat).

Cost of treatment for each animal

1. Deworming :- 50 Rs
2. Concentrate feed 2 to 3 kg per day for 2 months 2400 Rs.
   (200 kg x 12 Rs)
3. Mineral mixture 50 grams per day (3 Kgs) 400 Rs.
4. Green fodder - 10 – 20 kgs / day 1000 Rs
   (input of Sorgum and Maize seed & Fertilizer)
5. Dry fodder 1 tone 2000 Rs
   (Urea treatment done for improving nutritive value of Paddy straw)
6. Medicine (hormonal treatment) 550 Rs

Total = 6400 Rs.

No. of heifer -05 **Total Cost** = 6400 x 5 = **32,000 Rs**

On Farm Testing : (8)

Title of OFT: Assessment of different models of kitchen gardening

Introduction :

Growing of vegetable around their homestead is the traditional practice followed by the tribal farm women. The very purpose of this practices is to meet the daily requirement of their family. Shortage of land, water and adoption of low yield variety gave them low production .Poor combination of different vegetable crops not fulfill the purpose. Mal nutrition is still a great problem with the tribal people. Hence the different design of kitchen garden which gives good yield from the given place and proper combination of short duration crop with one or two fruit crops are tested on farmers field.

Problem : Low production of vegetable crops.

Interveining point : Use of Gangama models of kitchen gardening.

Crops : Different vegetable crops

Year : 2016-17

Village : Khuntli No. of farmers : 05

Treatments :

T_1 : Farmer practice

T_2 : Recommended (Kitchen garden model-NAU)

T_3 : Gangama circle model of kitchen gardening

Approx. Cost of Inputs (per farmer):

1. Vegetable seedlings : Rs. 5000.00

On Farm Testing : (9)

Title of OFT: To Assess use of liquid biofertiliser enriched vermicompost in Nagli.

Tribal farmers of Kaparada block of Valsad are not used chemical fertilizers due to its cost and FYM due to its unavailability. Yield potentiality of Nagli declined due to no use of fertilizers and poor soil fertility .Use of liquid biofertiliser enriched Vermicompost can be improve soil fertility and yield of Nagli with reduction in cost of cultivation. So, this KVK has decided to conduct experiment to assess the application of liquid biofertiliser enriched Vermicompost in Nagli.

Problem : Costly chemical fertilizer, reduce net profit and declined soil health

Interveining point : Use of Liquid biofertiliser enriched vermicompost

Crop : Nagli Year : 2016-17 Season: Kharif

Variety : Guj. Nagli- 5 Village : Girnara

Plot size : 0.30 ha.(0.10 ha per treatment) No.of farmers : 10

TREATMENTS

T1 : Farmer practice (No Use of fertilizers)

T2 : Recommended Dose of Fertiliser (RDF) (8 -10 t ha-1 FYM + 40 : 20 : 00 kg NPK ha-1)

T3 : 20 : 10 : 00 kg NPK ha-1+ 1 t ha-1 Vermicompost + Liquid Biofertilisers (i.e *Azotobactor* & PSB) @ 1.25 lit ha-1 (For enrichment of Vermicompost)

Approx. Cost of Inputs :

1. Liquid Biofertilizers : 600/- Rs
2. Vermicompost : 6000/- Rs
3. Chemical fertilizers : 8000/- Rs.

Total : 14600/- Rs

On Farm Testing (10)

Title of OFT: Assessment of technology for reducing drudgery in threshing of paddy

Introduction :

Paddy is an important crop of the district. Tribal Farmers growing paddy on small pieces of land. Manual threshing of paddy is much time consuming and laborious job. Few farmers started use of electrically operated paddy thresher. Most of the paddy thresher owner are not happy with the machine because .This is mainly due to breakage of paddy straw. Of course machine reduced drudgery involved in the operation and also reduced the cost of labour involved in it. But on the other hand breakage of paddy straw fetchs lower price. Thus with a view to check the efficiency of modified paddy thresher in the field condition and get feedback from the farmer the trial is designed.

Problem :

- High cost of threshing of Paddy.
- Higher breakage of paddy straw through manual threshing and existing thresher.

Intervening point : Use of modified thresher (manual/electrically operated)
Crop : Paddy **Year :** 2016-17
Village : Khuntli
No. of farmers : 05
Treatments :
T_1 : Farmer practice (Beathing method)
T_2 : Recommended Paddy Thresher
T_3 : Modified thresher (both electrically and manually operated)
Approx. Cost of inputs (per farmer):

1. Thresher with modification: Rs.17000.00

Source of technology : University recommendation /

i. Production system and thematic area : Drudgery reduction

ii. Performance indicators-Breakage of paddy straw, Reduction in drudgery in a given time frame. Safety measure while working with machine. Maximum out put with in stipulated time. Affordable cost of machine for poor tribal farmers.

iii. Process of farmers participation and their reaction :
Farmers associated with the Paddy cultivation were identified. Information pertaining to threshing of paddy(manually) under hilly area followed by farmers was collected. The problems faced by them was also discussed. .Treatments were thoroughly discussed with them and lastly according to their suggestions modifications in the thresher will be made. From among these farmers five farmers will be selected for testing the technology on their farm.

On Farm Trial (11)

Title of OFT: Assessment of improved varieties of Sweet potato in valsad district

Introduction:

Valsad district having tribal farmers and they are grown quality horticultural produce like mango, vegetables such as tuber crops. Maximum farmers are using local varieties of tuber crops so they are getting a lower yield and less profit.

Maximum sweet potato growers in the Kaparada block of Valsad district, they are facing problem of low yield due to local variety as well improper management of cultivation practices. Therefore, there is a higher economic loss from producer point of view as it lower down the yield and deteriorate fruit quality resulting into low market value. It was also observed that the farmers in this area are not using improved varieties of sweet potato so it will directly affect to productivity.

Problem **:** Low yield of local variety

Intervening point **:** New high yielding improved variety

Crop **:** Sweet potato (C-71)

Season/Year **:** Rabi- 2016-17

Village : Karjun **Block :** Kaprada

Plot size : 1.00 ha

No. of Farmers : 05

Treatments Details:

T1 – Local variety

T2 – Improved high yielding variety (C-71)

Approx. Cost of Inputs:

1. Sweet potato cuttings : 32000 Rs.

3.2 Frontline Demonstrations

A. Details of FLDs to be organized .

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demo.	Parameters identified
1	Paddy	GAR-13	ICM	Improved Variety	Seed, Bio.Ferti.	Kharif-2016	25	125	Yield
2	Black Gram	Guj.Udad-1	ICM	Improved Variety	Seed, Bio.Ferti	Kharif-2016	05	25	Yield
3	Pigeon Pea	Vaishali	ICM	Improved Variety	Seed, Bio.Ferti.	Rabi-2016	05	25	Yield
4	Gram	G.G.-3	ICM	Improved Variety	Seed, Bio.Ferti	Rabi-2016	10	50	Yield
5	Green Gram	Meha	ICM	Improved Variety	Seed, Bio.Ferti	Summer-16-17	05	25	Yield

6	Fingermillet	Guj.Nagli-5	ICM	Improved Variety	Seed, Bio.Ferti.	Kharif-2016	20	100	Yield
7	Indian bean	Guj.Val-2	ICM	Improved Variety	Seed, Bio.Ferti.	Rabi-16-17	05	50	Yield
8	Brinjal	DPR	ICM	Improved Variety	Seed, Bio.Ferti.	Kharif-2016	05	25	Yield
9	Bittergourd	F1	ICM	Improved Variety	Seed, Bio.Ferti.	Kharif-2016	05	25	Yield
10	Bottlegourd	F1	ICM	Improved Variety	Seed, Bio.Ferti.	Rabi-2016	05	25	Yield
11	Banana	G – 9	ICM	Improved Variety	Seed, Bio.Ferti.	Kharif-2016	02	20	Yield
12	Sweet potato	C-71	ICM	Improved Variety	Seed, Bio.Ferti.	Kharif-2016	02	20	Yield
13	Chilly	F1	ICM	Improved Variety	Seed, Bio.Ferti.	Rabi-2016	03	30	Yield
14	Paddy	GAR-13	IPM/IDM	Management of stem borer, hopper , blight & blast	Neem oil, Pseudomonas	Kharif-2016	10	100	Yield, Damage
15	Fingermillet	Guj.Nagli-5	IPM/IDM	Management of stem borer and blight	Neemoil, Psedomonas	Kharif-2016	10	100	Yield, Damage
16	Bittergourd	--	IPM	Management of fruil fly & D.M.	Fruitfly traps, fungicide	Kharif-2016	05	25	Yield, Damage
17	Brinjal	DPR	IPM/ IDM	Management of fruit borer, sucking pest & wilt	Traps, Neem oil, Trichoderma	Kharif-2016	05	25	Yield, Damage
18	Gram	GG-2	IPM	Management of podborer & Aphids	Neem oil	Rabi-2016-17	05	25	Yield, Damage
19	Nagli	Guj.Nagli-5	Water conservation	Pusa Hydrogel	Hydrogel	Kharif-2016	10	25	Yield , Net profit, soil fertility
20	Banana	G-9	Nutrient Management	Micronutrients application	Micronutrients	Rabi-16-17	05	25	Yield , Net profit, soil fertility
21	Sugarcane	CO N-07072	Nutrient Management	Gypsum application	Phospho gypsum	Rabi-16-17	05	25	Yield , Net profit,

22	Paddy	Guj.7	INM	Azolla	Azolla bed	Kharif -2016	10	25	Yield , Net profit, soil fertility
23	Paddy	Guj.7	INM	Biofertilisers	LBF	Kharif -2016	20	40	Yield , Net profit, soil fertility
24	Nagli	Guj.Nagli-5	INM	Biofertilisers	LBF	Kharif -2016	20	40	Yield , Net profit, soil fertility
25	Brinjal	Surati Raviya	INM	Biofertilisers	LBF	Kharif -2016	20	40	Yield , Net profit, soil fertility
26	Perennial grass	Co – 4, BNH -10	Fodder management	Green fodder production	Seed	2016-17	06	100	Fodder Yield
27	Sorghum	Multi cut sorghum	Fodder management	Improved Variety	Seed	Rabi-16-17	06	100	Fodder Yield
					Total		**234**	**1145**	

Sponsored Demonstration -Nil

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	September, December, January, April,	700
2	Farmers Training	12	June, July, October, November, December, February	300
3	Media coverage	08	June, July, October, November, December, February	--
4	Training for extension functionaries	--	--	--

C. Details of FLD on Enterprises ; Nil

(i) Farm Implements - Nil

(ii) Livestock Enterprises –Nil

3.3 Training (Including the sponsored and FLD training programmes):

A) ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Integrated Crop Management	05	90	80	170	90	80	170	170
II Horticulture								
a) Vegetable Crops								
Production and Management technology	01	20	10	30	20	10	30	30
b) Fruits								
Cultivation of Fruit	01	25	--	25	25	--	25	25
e) Tuber crops								
Production and Management technology	01	20	10	30	20	10	30	30
III Soil Health and Fertility Management								
Integrated Nutrient Management	01	15	15	30	15	15	30	30
Micro nutrient deficiency in crops	01	15	10	25	15	10	25	25
Soil and Water Testing	01	15	10	25	15	10	25	25
IV Livestock Production and Management								
Dairy Management	02	10	40	50	10	40	50	50
Disease Management	01	05	20	25	05	20	25	25
Feed management	01	05	20	25	05	20	25	25
V Home Science/Women empowerment								
Household food security by nutrition gardening	01	--	20	20	--	20	20	20
Gender mainstreaming through SHGs	01	--	20	20	--	20	20	20
Women and child care	01	--	20	20	--	20	20	20

VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	02	50	--	50	50	--	50	50
VII Plant Protection								
Integrated Pest –Disease Management	03	60	-	60	60	-	60	60
X Capacity Building and Group Dynamics								
Leadership development	02	25	25	50	25	25	50	50
Group dynamics	01	25	--	25	25	--	25	25
Formation and Management of SHGs	01	--	25	25	--	25	25	25
TOTAL	**27**	**380**	**325**	**705**	**380**	**325**	**705**	**705**
(B) RURAL YOUTH								
Nursery management	02	50	--	50	50	--	50	50
Farm mechanization	01	20	--	20	20	--	20	20
Scientific Dairy management	01	25	--	25	25	--	25	25
Value addition	01	--	20	20	--	20	20	20
Leafcup making	01	--	20	20	--	20	20	20
Natural Fiber articles preparation	01	--	20	20	--	20	20	20
TOTAL	**07**	**95**	**60**	**155**	**95**	**60**	**155**	**155**
(C) Extension Personnel								
Productivity enhancement in field crops	01	20	--	20	20	--	20	20
Women and Child care	01		20	20		20	20	20
Integrated Pest Management	01	25	-	25	25	-	25	25
Formation and Management of SHGs	02	--	50	50	--	50	50	50
TOTAL	**05**	**45**	**70**	**115**	**45**	**70**	**115**	**115**
G. Total	**39**	**520**	**455**	**975**	**520**	**455**	**975**	**975**

B) OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	02	30	20	50	30	20	50	50
Resource Conservation Technologies	01	10	15	25	10	15	25	25
Water management	01	10	15	25	10	15	25	25
Nursery management	01	10	15	25	10	15	25	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	01	25	--	25	25	--	25	25
Production and Management technology	01	25	--	25	25	--	25	25
b) Tuber crops								
Production and Management technology	01	20	10	30	20	10	30	30
III Soil Health and Fertility Management								
Integrated Nutrient Management	01	15	10	25	15	10	25	25
Production and use of organic inputs	02	30	20	50	30	20	50	50
Soil and water testing	01	20	10	30	20	10	30	30
IV Livestock Production and Management								
Dairy Management	01	05	20	25	05	20	25	25
Feed management	02	10	40	50	10	40	50	50
V Home Science/Women empowerment								
Household food security by nutrition gardening	01	--	20	20	--	20	20	20
Value addition	01	--	20	20	--	20	20	20
Formation and Management of SHGs	01	--	20	20	--	20	20	20

VI Agril. Engineering								
Soil and water conservation	01	25	--	25	25	--	25	25
Drudgery reduction	01	25	--	25	25	--	25	25
Micro irrigation	01	25	--	25	25	--	25	25
VII Plant Protection								
Integrated Pest & Disease management	03	60	15	75	60	15	75	75
Bio-control of pests and diseases	02	40	10	50	40	10	50	50
X Capacity Building and Group Dynamics								
Leadership development	01	25	--	25	25	--	25	25
Formation and Management of SHGs(HS)	01	--	25	25	--	25	25	25
TOTAL	**28**	**410**	**285**	**695**	**410**	**285**	**695**	**695**
(B) RURAL YOUTH								
Scientific Dairy management	01	25	--	25	25	--	25	25
Leaf cup making	01	--	20	20	--	20	20	20
Natural Fiber articles preparation	01	--	20	20	--	20	20	20
Tailoring and Stitching	01	--	20	20	--	20	20	20
TOTAL	**04**	**25**	**60**	**85**	**25**	**60**	**85**	**85**
(C) Extension Personnel								
Integrated Nutrient management	01	20	15	35	15	10	25	35
Livestock feed and fodder production	01	25	--	25	25	--	25	25
Total	**02**	**45**	**15**	**60**	**45**	**15**	**60**	**60**
G. TOTAL	**34**	**480**	**360**	**840**	**480**	**360**	**840**	**840**

C) Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	02	30	20	50	30	20	50	50
Resource Conservation Technologies	01	10	15	25	10	15	25	25
Water management	01	10	15	25	10	15	25	25
Nursery management	01	10	15	25	10	15	25	25
Integrated Crop Management	05	90	80	170	90	80	170	170
II Horticulture								
a) Vegetable Crops								
Production and Management technology	02	45	10	55	45	10	55	55
Production of low volume and high value crops	01	25	--	25	25	--	25	25
b) Fruits								
Cultivation of Fruit	01	25	--	25	25	--	25	25
e) Tuber crops								
Production and Management technology	02	40	20	60	40	20	60	60
III Soil Health and Fertility Management								
Integrated Nutrient Management	02	30	25	55	30	25	55	55
Micro nutrient deficiency in crops	01	15	10	25	15	10	25	25
Soil and Water Testing	02	35	20	55	35	20	55	55
Production and use of organic inputs	02	30	20	50	30	20	50	50
IV Livestock Production and Management								
Dairy Management	03	15	60	75	15	60	75	75

Disease Management	01	05	20	25	05	20	25	25
Feed management	03	15	60	75	15	60	75	75
V Home Science/Women empowerment								
Household food security by nutrition gardening	02	--	40	40	--	40	40	40
Gender mainstreaming through SHGs	01	--	20	20	--	20	20	20
Women and child care	01	--	20	20	--	20	20	20
Value addition	01	--	20	20	--	20	20	20
Formation and Management of SHGs	01	--	20	20	--	20	20	20
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	02	50	--	50	50	--	50	50
Soil and water conservation	01	25	--	25	25	--	25	25
Drudgery reduction	01	25	--	25	25	--	25	25
Micro irrigation	01	25	--	25	25	--	25	25
VII Plant Protection								
Integrated Pest –Disease Management	06	120	15	135	120	15	135	135
Bio-control of pests and diseases	02	40	10	50	40	10	50	50
X Capacity Building and Group Dynamics								
Leadership development	03	50	25	75	50	25	75	75
Group dynamics	01	25	--	25	25	--	25	25
Formation and Management of SHGs	02	--	50	50	--	50	50	50
TOTAL	**55**	**790**	**610**	**1400**	**790**	**610**	**1400**	**1400**
(B) RURAL YOUTH								
Nursery management	02	50	--	50	50	--	50	50
Farm mechanization	01	20	--	20	20	--	20	20
Scientific Dairy management	02	25	25	50	25	25	50	50
Value addition	01	--	20	20	--	20	20	20
Leafcup making	02	--	40	40	--	40	40	40

Natural Fiber articles preparation	02	--	40	40	--	40	40	40
Tailoring and Stitching	01	--	20	20	--	20	20	20
TOTAL	**11**	**95**	**145**	**240**	**95**	**145**	**240**	**240**
(C) Extension Personnel								
Productivity enhancement in field crops	01	20	--	20	20	--	20	20
Women and Child care	01	--	20	20	--	20	20	20
Integrated Pest Management	01	25	--	25	25	-	25	25
Formation and Management of SHGs	01	--	25	25	--	25	25	25
Gender mainstreaming through SHGs	01	--	25	25	--	25	25	25
Integrated Nutrient management	01	20	15	35	15	10	25	35
Livestock feed and fodder production	01	25	--	25	25	--	25	25
Total	**07**	**90**	**85**	**175**	**85**	**80**	**165**	**175**
G. TOTAL	**73**	**975**	**840**	**1815**	**975**	**840**	**1815**	**1815**

Details of training programmes attached in **Annexure -I**

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	450	250	700	10	--	10	460	250	710
Kisan Mela	01	500	300	800	12	03	15	512	303	815
Kisan Ghosthi	20	300	200	500	08	02	10	308	202	510
Exhibition	03	2500	1500	4000	10	03	13	2510	1503	4013
Film Show	15	250	75	325	--	--	--	250	75	325
Farmers Seminar	10	400	250	650	07	03	10	407	253	660
Workshop	--	--	--	--	--	--	--	--	--	--
Group meetings	25	250	125	375	--	--	--	250	125	375
Lectures delivered	20	1000	500	1500	25	05	30	1025	505	1530
Newspaper coverage	08	--	--	--	--	--	--	--	--	--
Radio talks	05	--	--	--	--	--	--	--	--	--
TV talks	02	--	--	--	--	--	--	--	--	--
Popular articles	08	--	--	--	--	--	--	--	--	--
Extension Literature	12	--	--	--	--	--	--	--	--	--
Advisory Services	250	200	50	250	15	--	15	215	50	265
Scientific visit to farmers field	150	200	50	300	20	05	25	220	55	325
Farmers visit to KVK	1200	1000	200	1200	--	--	--	--	--	--
Diagnostic visits	50	200	100	300	10	02	12	210	102	312
Exposure visits	03	60	30	90	--	--	--	--	--	--
Ex-trainees Sammelan	01	--	75	75	--	02	02	--	77	77
Soil health Camp	04	160	40	200	02	--	02	162	40	202
Animal Health Camp	03	30	90	120	05	--	05	35	90	125

Agri mobile clinic	--	--	--	--	--	--	--	--	--	--
Soil test campaigns	04	160	40	200	--	--	--	--	--	--
Farm Science Club Conveners meet	01	25	--	25	--	--	--	--	--	--
Self Help Group Conveners meetings	02	--	50	50	--	02	02	--	52	52
Mahila Mandals Conveners meetings	02	--	50	50	--	02	02	--	52	52
Celebration of important days	04	200	100	300	05	02	07	205	102	307
Krishi Mohostva	02	600	800	1400	10	02	12	610	802	1412
Krishi Rath	02	150	50	200	08	02	10	158	52	210
Pre Kharif workshop	01	150	100	250	02	--	02	152	100	252
Pre Rabi workshop	01	150	100	250	03	--	03	153	100	253
PPVFRA workshop	01	70	30	100	04	--	04	74	30	104
Total	**1820**	**9005**	**5155**	**14210**	**156**	**35**	**191**	**7916**	**4920**	**12886**

3.5 Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	GAR-13, Jaya	80.00
PULSES	Green gram	Meha	3.00
	Indianbean	NPS-1	1.00

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Mango	Kesar	1000
VEGETABLES	Brinjal Tomato Chilli Cabbage Cauliflower	DPR Hybrid Hybrid Hybrid Hybrid	6,00,000 1,00,000 80,,000 10,000 10,000
PLANTATION CROP	Sugarcane	Co.N-7072	300 qt.
OTHER (Specify)	Fodder tousseks	Co-4, BNH-10	50,000 (tousseks)
	Sweetpotato	CO-3-4	66000 cuttings

Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO Agents				
1 Fruitfly Traps	Fruitfly Traps	Methyl Euginol Traps	2500	--

LIVESTOCK - Nil

3.6. Literature to be Developed/Published

(A) KVK News Letter : Half yearly (January & July)

Date of start : January - 2012

Number of copies to be published :400

(B) Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	04
2	Technical reports	02
3	News letters	02
4	Training manual all discipline	10
5	Popular article	08
6	Extension literature	10
	Total	**36**

(C) Details of Electronic Media to be Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	DVD	KVK- Activities and itsimpct	100

3.7. Success stories / Case studies identified for development as a case. - will be documented.

3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers

PRA

I. Field level observations
II. Farmer group discussions
III. Poor yield at farmers level
IV. Existing cropping system

Rural Youth

I. Farmer group discussions
II. Existing cropping system

In-service personnel

I. Farmer group discussions
II. Poor yield at farmers level
III. Existing cropping system

3.9 Indicate the methodology for identifying OFTs/FLDs

For OFT :
i) PRA
ii) Problem identified from Matrix
iii) Field level observations
iv) Farmer group discussions

For FLD :

i) New variety/technology
ii) Poor yield at farmers level

iii) Existing cropping system

3.10 Field activities

i. Name of villages identified/adopted with block name (from which year) -

ii. No. of farm families selected per village : 50

iii. No. of survey/PRA conducted : 06

3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : 2007

2. List of equipments purchase with amount :

Sr. No	Name of the Equipment	Qty.	Cost (Rs)
1	Automatic KEL Plus, microprocessor Based eight place Macro block Digestion system	1	74,000.00
2	Auto water Distillery	1	9,500.00
3	Conductivity meter	1	6,823.00
4	Electronic KEL Plus, microprocessor Based Automatic nitrogen Distillation system	1	1,25,350.00
5	Flame photometer	1	29,803.00
6	Hot air oven	1	23,000.00

7	Hot plate round	1	8,500.00
8	NOVA willy mill Grinder	1	31,900.00
9	pH meter	1	6,705.00
10	Refrigerator	1	18,475.00
11	Rotary Shaker	1	24,500.00
12	Rotary Shaker	1	29,750.00
13	Spectro photometer	1	35,293.00
14	Weighing scale	1	11,500.00
15	Weighing scale	1	21,500.00
	Total		**4,56,599.00**

4. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	500	50	150000
Water	200	200	50	14000
Plant	100	120	40	--
Total	**800**	**820**	**140**	**1,64,000**

4.0 LINKAGES

4.1 Functional linkage with different organizations

Sr. No.	Name of organization	Nature of linkage
1	ATMA	Training and organizing farmers shibir.
2	Dept. of Agril. Valsad.	Involvement of kvk experts for delivering lectures, farmers seminars and Extension Functionaries trainings.
3	Dept. of Horticulture, Valsad	Involvement for lectures delivering in Technology week.
4	Dept. of Animal husbandry, Valsad	Joint implementation of organizing Cattle Treatment Camp & farmers shibir
5	Dept. of Forest, Valsad	Joint implementation of organizing Ext. Functionaries training.
6	Navsari. Agril. Uni. Navsari	Provides expertise for latest technology and supply of improved seeds of Paddy, Sugarcane, Indian bean and Sweet potato.
7	Vasudhara dairy	Joint implementation of Farmers, Farm women & Ext. Functionaries training. .
8	Rural Technology Institute , Pardi	Joint implementation of Vocational trainings.
9	J. N. Trust, Pardi	Joint implementation of farmers trainings & seminars.
10	Jain Irrigation Co , Dharampur	Soil and water sample analysis.
11	Disrtict Industrial Centre,Valsad	Approval of loan case of trainees for bank loan.
12	Jan Shikshan Sansthan Ministry of HRD .	Joint implementation of long term vocational trainings.

4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sr. No.	Programme	Nature of linkage
1	On campus training	Technical expertise , method demonstration .
2	Interface meeting	Technical expertise by KVK staff
3	Joint visit of ATMA villages	Diagnostic visit on farmers field
4	Kisan gosthi	Technical lectures by KVK staff
5	Lecture delivered	Technical expertise by KVK staff

4.3 Give details of programmes under National Horticultural Mission : NIL

4.4 Nature of linkage with National Fisheries Development Board : NIL

5.0 Utilization of hostel facilities

S. No.	Programme	No. of days
1	Scientific Cultivation of kharif Paddy	04
2	Production technology of Gram	02
3	Scientific Cultivation of Summer Green Gram	02
4	Scientific cultivation of low volume and high value crops	03
5	Scientific cultivation of high density mango.	02
6	Production technology of vegetables	02
7	Production technology of tuber crops	02
8	Feed and Fodder management	02
9	Feed and Fodder management	02

10	Soil and Water sample testing	02
11	Use and Importance of Liquid Biofertilisers	02
12	Micronutrient Deficiencies and its correction in Vegetable crops	02
13	Installation and maintenance of micro irrigation systems	02
14	Repair and maintenance of farm machinery and implements	07
15	Household food security by nutrition gardening	02
16	Gender mainstreaming through SHGs	02
17	Value addition	05
18	Integrated Disease Management in Mango	02
19	Leadership development	02
20	Formation and Management of SHGs	02

6.0 Convergence with departments :

Sr. No.	Name of organization	Nature of convergence
1	Dept. of Agril. Valsad.	Involvement of kvk experts for delivering lectures, farmers seminars and Extension Functionaries trainings.
2	Dept. of Horticulture, Valsad	Involvement for lectures delivering in Technology week.
3	Dept. of Animal husbandry, Valsad	Joint implementation of organizing Cattle Treatment Camp & farmers shibir
4	Dept. of Forest, Valsad	Joint implementation of organizing Ext. Functionaries training.

7.0 Feedback of the farmers about the technologies demonstrated and assessed : ---

8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities : ---

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
24-27/05/2016	PF/FW	Scientific Cultivation of kharif Paddy	04	20	30	50	20	30	50	50
01-02/06/2016	PF/FW	Production technology of Black Gram	02	20	10	30	20	10	30	30
24-25/10/2016	PF/FW	Production technology of Gram	02	15	15	30	15	15	30	30
07-08/11/2016	PF/FW	Production technology of Pigeon pea	02	20	10	30	20	10	30	30
23-24/01/2017	PF/FW	Scientific Cultivation of Summer Green Gram	02	15	15	30	15	15	30	30
Horticulture										
24-25/06/2016	PF/FW	Scientific cultivation of high density Mango.	02	25	--	25	25	--	25	25
6-7/09/16	PF/FW	Production technology of Vegetables	02	20	10	30	20	10	30	30
11-12/10/2016	PF/FW	Production technology of Tuber crops	02	20	10	30	20	10	30	30
Livestock prod.										
06-07/07/2016	PF/FW	Feed and Fodder management	02	05	20	25	05	20	25	25
02-03/09/2016	PF/FW	Clean milk production	02	05	20	25	05	20	25	25
25-26/10/2016	PF/FW	Disease management	02	05	20	25	05	20	25	25
12-13/01/2017	PF/FW	Care and management of dairy animal	02	05	20	25	05	20	25	25
Soil Health										
18-19/04/2016	PF	Soil and Water sample testing	02	16	09	25	16	09	25	25
14-15 /06/2016	PF	Use and Importance of Liquid Biofertilisers	02	15	15	30	15	15	30	30

21-22 /10/2016	PF	Micronutrient Deficiencies and its correction in Vegetable crops	02	15	10	25	15	10	25	25
Agril. Engg.										
19-20/08/16	PF	Installation and maintenance of micro irrigation systems	02	25	--	25	25	--	25	25
21-29/11/16	PF	Installation and maintenance of micro irrigation systems	02	25	--	25	25	--	25	25
Home Science										
11-12/04/16	PFW	Household food security by nutrition gardening	02	--	20	20	--	20	20	20
16-17/05/16	PFW	Gender mainstreaming through SHGs	02	--	20	20	--	20	20	20
09-10/06/16	PFW	Women and child care	02	--	20	20	--	20	20	20
Plant protection										
17-18/08/16	PF	Integrated Pest-disease management in Paddy	02	20	-	20	20	-	20	20
03-04/11/16	PF	Integrated Pest-disease management in Mango	02	20	-	20	20	-	20	20
06-07/01/17	PF	Integrated pest –disease management in vegetables	02	20	-	20	20	-	20	20
Capacity Building										
23-24/06/16	PF/PFW	Leadership development	02	25	25	50	25	25	50	50
10-11/08/16	PF	Group dynamics	02	25	--	25	25	--	25	25
6-7/10/16	PFW	Formation and Management of SHGs	02	--	25	25	--	25	25	25

ii) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
04/04/2016	PF/FW	Advantages of green manuring in Paddy	01	10	15	25	10	15	25	25
31/05/2016	PF/FW	Raising of healthy seedlings of Paddy & Finger millet	01	10	15	25	10	15	25	25
23/06/2016	PF/FW	Weed management in kharif Paddy	01	15	10	25	15	10	25	25
03/01/2017	PF/FW	Water management in Sugarcane	01	10	15	25	10	15	25	25
21/02/2017	PF/FW	Weed and water management in Green Gram	01	15	10	25	15	10	25	25
Horticulture										
30/05/2016	PF	Scientific cultivation of low volume and high value crops	01	25	--	25	25	--	25	25
15/09/16	PF/FW	Production technology of kharif vegetables	01	25	--	25	25	--	25	25
17/11/2016	PF/FW	Production technology of tuber crops	01	20	10	30	20	10	30	30
Live Stock Production.										
18/09/2016	PF	Care and management of dairy animal	01	05	20	25	05	20	25	25
16/11/2016	PF	Feed and Fodder management	01	05	20	25	05	20	25	25
21/12/2016	PF	Feed and Fodder management	01	05	20	25	05	20	25	25
Soil Health										
09-10/05/2016	PF	Soil and water testing	02	20	10	30	20	10	30	30
20-23/07/2016	PF	Integrated Nutrient Management in Paddy	04	15	10	25	15	10	25	25
20-21/11/2016	PF	Use and Importance of LBF in Vegetable crops	02	15	10	25	15	10	25	25
14-17/02/2017	PF	Organic Liquid Manures	04	15	10	25	15	10	25	25
Agril. Engg.										
2/6/16	PF	Soil and water conservation	01	25	--	25	25	--	25	25

26/09/16	PF	Drudgery reduction	01	25	--	25	25	--	25	25
20/11/16	PF	Micro irrigation	01	25	--	25	25	--	25	25
Home Science										
16-17/05/16	PFW	Gender mainstreaming through SHGs	02	--	20	20	--	20	20	20
9-14/08/16	PFW	Value addition	05	--	20	20	--	20	20	20
20-21/10/16	PFW	Household food security by nutrition gardening	02	--	20	20	--	20	20	20
Plant Protection										
06-07-16	PF	Identification of pest and disease of paddy and its management	01	20	05	25	20	05	25	25
20-08-16	PF	Diseases and pest management in Finger millet	01	20	05	25	20	05	25	25
19-11-16	PF	Biological control of pest diseases in brinjal	01	20	05	25	20	05	25	25
28-12-16	PF	Major pest and disease of mango and their integrated management	01	20	05	25	20	05	25	25
10-02-17	PF	Bio control of pest in pulse crops	01	20	05	25	20	05	25	25
Capacity Building										
09/09/16	PF/PFW	Leadership development	01	25	25	50	25	25	50	50
04/10/16	PF/PFW	Formation and management of SHGs(HS)	01	25	25	50	25	25	50	50

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST Participants			Grand Total
					M	F	T	M	F	T	
	Value addition	Fruit & veg. preservation	July-16	05	--	20	20	--	20	20	20
	Rural crafts	Preparation of Leaf cup	July & Oct-16	15	--	25	25	--	25	25	25
Nursery	Nursery management	Nursery management	July & Oct-16	15	25	--	25	25	--	25	25
LPM	Milk production	Scientific Dairy management	Aug & Nov-16	15	25	--	25	25	--	25	25
Farm machinery	Farm mechanization	Repair & maintenance of farm machinery and implements	Dec-16	07	20	--	20	20	--	20	20
	Rural crafts	Natural fiber articles preparation	Jan & Mar -17	30	--	20	20	--	20	20	20
	Tailoring and Stitching	Sewing work	Sept-16	90	--	20	20	--	20	20	20

iii) Training programme for Extension Functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
On Campus										
Sept-16	ICDS workers	Women and child care	02	--	40	40	--	40	40	40
07-08/09/16	VLWs	Eco-friendly Pest and Dis. Management	02	25	-	25	25	-	25	25
26-27/05/16	NGO field staff	Productivity enhancement in field crops	02	20	--	20	20	--	20	20
28-29/07/16, 08-09/02/17	SHG group leaders	Formation and Management of SHGs	02	--	50	50	--	50	50	50
OFF Campus										
22 /12/2016	DIET, Teachers	Eco friendly fertilizers in agriculture	01	20	15	35	10	05	15	35
05/01/17	Paravet workers	Livestock feed and fodder production	01	25	--	25	25	--	25	25

iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training progdramme											
Agronomy	ATMA	PF/PFW	Scientific cultivation of kharif paddy	01	15	25	40	15	25	40	40
Animal science	ATMA	PF/PFW	Feed and fodder management	01	05	25	30	05	25	30	30
Home science	ATMA	PFW	Nutritional garden	01	--	40	40	--	40	40	40
Soil Science	ATMA	PF	Soil fertility management	01	30	--	30	30	--	30	30
Pl.Prot.	ATMA	PF	IPM for vegetables	01	30	--	30	30	--	30	30
Ext.Edu.	ATMA	PF	Organic farming	01	30	--	30	30	--	30	30
			Total	**06**	**110**	**90**	**200**	**110**	**90**	**200**	**200**
b) Sponsored research programme : Nil											